10/693,717

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Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L2	24	knight-holly.IN.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/30 11:52
L3	4	L2 and accessor	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/30 11:54
L4	11	Gerber-robert-h.IN.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/30 11:55
L5	4	L4 and accessor	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/30 11:57
L6	0	Mensa-Annan-Charles.IN.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/30 11:57
L7	0	MensaAnnan-Charles.IN.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/30 11:58
L8	0	Mensa$-Charles.IN.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/30 11:58
L9	4	Mensa$-Tete.IN.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/30 11:58
L10	2	L9 and (accessor or domai$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/30 11:59

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L11	15	pather-shyamalan.in.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/30 11:59
L12	10	L11 and (domai$2 or accessor)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/30 12:04
L13	7	Curley-Vincent-H.IN.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/30 12:04
L14	4	L13 and (accessor or domain)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/30 12:04
S14	28	(compil$5 near2 list) and (librar$3 near2 repository) and bind and (@ad<"20031024" or @rlad<"20031024" or @prad<"20031024")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/30 09:29
S50	0	("accessor component") and (across near2 domain$2) and bind and (@ad<"20031024" or @rlad<"20031024" or @prad<"20031024")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/30 09:30
S51	11	("accessor" near3 "component") and (across near2 domain$2) and bind and (@ad<"20031024" or @rlad<"20031024" or @prad<"20031024")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/30 11:51

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1 System support for pervasive applications

Robert Grimm, Janet Davis, Eric Lemar, Adam Macbeth, Steven Swanson, Thomas Anderson, Brian Bershad, Gaetano Borriello, Steven Gribble, David Wetherall

November 2004 **ACM Transactions on Computer Systems (TOCS)**, Volume 22 Issue 4

Publisher: ACM Press

Full text available: pdf(1.82 MB) Additional Information: full citation, abstract, references, index terms

Pervasive computing provides an attractive vision for the future of computing. Computational power will be available everywhere. Mobile and stationary devices will dynamically connect and coordinate to seamlessly help people in accomplishing their tasks. For this vision to become a reality, developers must build applications that constantly adapt to a highly dynamic computing environment. To make the developers' task feasible, we present a system architecture for pervasive computing, called & ...

Keywords: Asynchronous events, checkpointing, discovery, logic/operation pattern, migration, one.world, pervasive computing, structured I/O, tuples, ubiquitous computing

2 Practitioner reports: "Honey, i shrunk the types": how behavioral types loose relevance on the edges on OO applications and why a core data fabric is useful for adaptability

John Kuriakose

October 2005 **Companion to the 20th annual ACM SIGPLAN conference on Object-oriented programming, systems, languages, and applications OOPSLA '05**

Publisher: ACM Press

Full text available: pdf(232.31 KB) Additional Information: full citation, abstract, references, index terms

OO Programs are built by first defining User Types within the language environment and then realizing program requirements by using the behavior defined by these Types.We argue against defining types to deal with every scenario.OO Programs within an enterprise have to deal with the non-OO world that includes RDBMS, other Applications, and humans etc. On these EDGES that OO programs interact with the non-OO world we have observed that there is little respect for Types and behavior while the requi ...

Keywords: core data representation, data driven programming, dynamic data model, enterprise data fabric, enterprise data repository, reflective data API

3 The interaction of social issues and software architecture

Alistair Cockburn

October 1996 **Communications of the ACM**, Volume 39 Issue 10

Publisher: ACM Press

Full text available: pdf(201.09 KB) Additional Information: full citation, references, citings, index terms

4 Level set and PDE methods for computer graphics

David Breen, Ron Fedkiw, Ken Museth, Stanley Osher, Guillermo Sapiro, Ross Whitaker

August 2004 **Proceedings of the conference on SIGGRAPH 2004 course notes GRAPH '04**

Publisher: ACM Press

Full text available: pdf(17.07 MB) Additional Information: full citation, abstract

Level set methods, an important class of partial differential equation (PDE) methods, define dynamic surfaces implicitly as the level set (iso-surface) of a sampled, evolving nD function. The course begins with preparatory material that introduces the concept of using partial differential equations to solve problems in computer graphics, geometric modeling and computer vision. This will include the structure and behavior of several different types of differential equations, e.g. the level set eq ...

5 GPGPU: general purpose computation on graphics hardware

David Luebke, Mark Harris, Jens Krüger, Tim Purcell, Naga Govindaraju, Ian Buck, Cliff Woolley, Aaron Lefohn

August 2004 **Proceedings of the conference on SIGGRAPH 2004 course notes GRAPH '04**

Publisher: ACM Press

Full text available: pdf(63.03 MB) Additional Information: full citation, abstract

The graphics processor (GPU) on today's commodity video cards has evolved into an extremely powerful and flexible processor. The latest graphics architectures provide tremendous memory bandwidth and computational horsepower, with fully programmable vertex and pixel processing units that support vector operations up to full IEEE floating point precision. High level languages have emerged for graphics hardware, making this computational power accessible. Architecturally, GPUs are highly parallel s ...

6 N degrees of separation: multi-dimensional separation of concerns

Peri Tarr, Harold Ossher, William Harrison, Stanley M. Sutton

May 1999 **Proceedings of the 21st international conference on Software engineering**

Publisher: IEEE Computer Society Press

Full text available: pdf(1.64 MB) Additional Information: full citation, references, citings, index terms

Keywords: hypermodules, hyperslices, multi-dimensional separation of concerns, software decomposition and composition

7 A publish/subscribe CORBA persistent state service prototype

C. Liebig, M. Cilia, M. Betz, A. Buchmann

April 2000 **IFIP/ACM International Conference on Distributed systems platforms**

Publisher: Springer-Verlag New York, Inc.

Full text available: pdf(283.92 KB) Additional Information: full citation, abstract, references, citings

An important class of information dissemination applications requires 1:n communication and access to persistent datastores. CORBA's new Persistent State Service combined with messaging capabilities offer the possibility of efficiently realizing information brokers between data sources and CORBA clients. In this paper we present a prototype implementation of the PSS that exploits the reliable multicast capabilities of an existing middleware platform. This publish/subscribe architecture makes ...

8 Collision detection and proximity queries

Sunil Hadap, Dave Eberle, Pascal Volino, Ming C. Lin, Stephane Redon, Christer Ericson

August 2004 **Proceedings of the conference on SIGGRAPH 2004 course notes GRAPH '04**

Publisher: ACM Press

Full text available: pdf(11.22 MB) Additional Information: full citation, abstract

This course will primarily cover widely accepted and proved methodologies in collision detection. In addition more advanced or recent topics such as continuous collision detection, ADFs, and using graphics hardware will be introduced. When appropriate the methods discussed will be tied to familiar applications such as rigid body and cloth simulation, and will be compared. The course is a good overview for those developing applications in physically based modeling, VR, haptics, and robotics.

9 Reuse with PROTÉGÉ-II: from elevators to ribosomes

John H. Gennari, Russ B. Altman, Mark A. Musen

August 1995 **ACM SIGSOFT Software Engineering Notes , Proceedings of the 1995 Symposium on Software reusability SSR '95**, Volume 20 Issue SI

Publisher: ACM Press

Full text available: pdf(1.15 MB) Additional Information: full citation, references, citings, index terms

10 Posters: Time conscious objects™: a domain-specific framework and generator

Jorn Bettin, Jeff Hoare

October 2003 **Companion of the 18th annual ACM SIGPLAN conference on Object-oriented programming, systems, languages, and applications**

Publisher: ACM Press

Full text available: pdf(171.81 KB) Additional Information: full citation, abstract, references, index terms

In most business software systems the time dimension of business objects plays a significant role. Time is a crosscutting concern that is hard to separate from other business logic. We have developed a toolkit that allows existing business application systems to be extended with "time-conscious" behavior in a non-intrusive way by factoring out all aspects of time-related behavior into a framework and a set of classes that is distinct from the existing code base. The Time Conscious ObjectsTM (TCO ...

Keywords: auditability, domain-driven development, domain-specific languages, logging, model driven architecture (MDA), redo, temporal, time, undo, versioning

11 A framework for call graph construction algorithms

David Grove, Craig Chambers

November 2001 **ACM Transactions on Programming Languages and Systems (TOPLAS)**, Volume 23 Issue 6

Publisher: ACM Press

Full text available: pdf(1.36 MB) Additional Information: full citation, abstract, references, citings, index terms

A large number of call graph construction algorithms for object-oriented and functional

languages have been proposed, each embodying different tradeoffs between analysis cost and call graph precision. In this article we present a unifying framework for understanding call graph construction algorithms and an empirical comparison of a representative set of algorithms. We first present a general parameterized algorithm that encompasses many well-known and novel call graph construction algorithms. W ...

Keywords: Call graph construction, control flow analysis, interprocedural analysis

12 Permission-based ownership: encapsulating state in higher-order typed languages

Neel Krishnaswami, Jonathan Aldrich

June 2005 **ACM SIGPLAN Notices , Proceedings of the 2005 ACM SIGPLAN conference on Programming language design and implementation PLDI '05**, Volume 40 Issue 6

Publisher: ACM Press

Full text available: pdf(247.65 KB) Additional Information: full citation, abstract, references, index terms

Today's module systems do not effectively support information hiding in the presence of shared mutable objects, causing serious problems in the development and evolution of large software systems. Ownership types have been proposed as a solution to this problem, but current systems have ad-hoc access restrictions and are limited to Java-like languages.In this paper, we describe System F*own*, an extension of System F with references and ownership. Our design shows both how owners ...

Keywords: domains, lambda calculus, modularity, ownership types, permissions, state, system f, type theory

13 Generation of visitor components that implement program transformations

R. E. Kurt Stirewalt, Laura K. Dillon

May 2001 **ACM SIGSOFT Software Engineering Notes , Proceedings of the 2001 symposium on Software reusability: putting software reuse in context SSR '01**, Volume 26 Issue 3

Publisher: ACM Press

Full text available: pdf(135.87 KB) Additional Information: full citation, abstract, references, citings, index terms

The visitor pattern is appealing to developers of program-analysis tools because it separates the design of the data structures that represent a program from the design of software that traverses these structures. Unfortunately, the visitor pattern is difficult to apply when the analysis involves transformation logic that involves multiple program fragments simultaneously. We encountered this problem in our work on the {\proj} project and discovered a novel way to use multiple cooperating v ...

Keywords: amalia, curried visitor framework, lightweight analysis components, program transformations, visitor pattern

14 Aspect reuse and domain-specific approaches: Relationship aspects

David J. Pearce, James Noble

March 2006 **Proceedings of the 5th international conference on Aspect-oriented software development AOSD '06**

Publisher: ACM Press

Full text available: pdf(213.07 KB) Additional Information: full citation, abstract, references, index terms

The relationships between objects in object-oriented programs are as important as the objects themselves. Unfortunately, most object-oriented programming languages provide little support for such relationships, leaving the task of implementing them entirely to the

programmer. Relationships are typically hard-coded into the participating classes, resulting in tangled code that unnecessarily couples these classes together. The classes become harder to understand and cannot be reused independently. ...

Keywords: aspect-oriented programming, associations, relationships

15 Hypertext versioning: Automatic generation of hypertext system repositories: a model driven approach

E. James Whitehead, Guozheng Ge, Kai Pan

August 2004 **Proceedings of the fifteenth ACM conference on Hypertext and hypermedia HYPERTEXT '04**

Publisher: ACM Press

Full text available: pdf(593.73 KB) Additional Information: full citation, abstract, references, citings, index terms

In this paper, we present a model-driven methodology and toolset for automatic generation of hypertext system repositories. Our code generator, called Bamboo, is based on a Containment Modeling Framework (CMF) that uniformly describes data models for hypertext systems. CMF employs a lightweight modeling approach in which entities (system abstractions) and containment relationships are used to model hypertext system repositories. Given a description of a system repository data model using CMF, as ...

Keywords: automatic code generation, containment modeling framework, hypertext data models, model-driven development, open hyperbase

16 ARMISTICE: an experience developing management software with Erlang

David Cabrero, Carlos Abalde, Carlos Varela, Laura Castro

August 2003 **Proceedings of the 2003 ACM SIGPLAN workshop on Erlang**

Publisher: ACM Press

Full text available: pdf(362.35 KB) Additional Information: full citation, abstract, references

In this paper, some experiences of using the concurrent functional language Erlang to implement a classical vertical application, a risk management information system, are presented. Due to the complex nature of the business logic and the interactions involved in the client/server architecture deployed, traditional development techniques are unsatisfactory. First, the nature of the problem suggests an iterative design approach. The use of abstractions (functional patterns) and compositionality (...

Keywords: business logic, client/server architecture, concurrent programming, design patterns, distributed computing, functional programming

17 Subject-oriented design: towards improved alignment of requirements, design, and code

Siobhán Clarke, William Harrison, Harold Ossher, Peri Tarr

October 1999 **ACM SIGPLAN Notices , Proceedings of the 14th ACM SIGPLAN conference on Object-oriented programming, systems, languages, and applications OOPSLA '99**, Volume 34 Issue 10

Publisher: ACM Press

Full text available: pdf(2.02 MB) Additional Information: full citation, references, citings, index terms

Keywords: analysis and design methods, software engineering practices

18 Procedure cloning: a transformation for improved system-level functional partitioning

Frank Vahid

January 1999 **ACM Transactions on Design Automation of Electronic Systems (TODAES)**, Volume 4 Issue 1

Publisher: ACM Press

Full text available: pdf(227.98 KB) Additional Information: full citation, abstract, references, citings, index terms

Functional partitioning assigns the functions of a system's program-like specification among system components, such as standard-software and custom-hardware processors. We introduce a new transformation, called procedure cloning, that significantly improves functional partitioning results. The transformation creates a clone of a procedure for sole use by a particular procedure caller, so the clone can be assigned to the caller's processor, which in turn improves performance through reduced ...

Keywords: behavioral synthesis, embedded systems, functional partitioning, hardware/software codesign, replication, system-level design, system-on-a-chip, transformations

19 Technical papers: consistency management and quality assurance: Consistency management with repair actions

Christian Nentwich, Wolfgang Emmerich, Anthony Finkelstein

May 2003 **Proceedings of the 25th International Conference on Software Engineering**

Publisher: IEEE Computer Society

Full text available: pdf(1.28 MB) Publisher Site Additional Information: full citation, abstract, references, citings, index terms

Comprehensive consistency management requires a strong mechanism for repair once inconsistencies have been detected. In this paper we present a repair framework for inconsistent distributed documents. The core piece of the framework is a new method for generating interactive repairs from full first order logic formulae that constrain these documents. We present a full implementation of the components in our repair framework, as well as their application to the UML and related heterogeneous docum ...

20 Human-computer interface development: concepts and systems for its management

H. Rex Hartson, Deborah Hix

March 1989 **ACM Computing Surveys (CSUR)**, Volume 21 Issue 1

Publisher: ACM Press

Full text available: pdf(7.97 MB) Additional Information: full citation, abstract, references, citings, index terms, review

Human-computer interface management, from a computer science viewpoint, focuses on the process of developing quality human-computer interfaces, including their representation, design, implementation, execution, evaluation, and maintenance. This survey presents important concepts of interface management: dialogue independence, structural modeling, representation, interactive tools, rapid prototyping, development methodologies, and control structures. *Dialogue independence* is th ...

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